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National Standard of the People's Republic of China

GB/T 12428-2005

Replace GB/T 12428-1990

客车装载质量计算方法

Laden Mass Calculating Method for Buses

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Foreword

Modification of this Standard mainly refers to 2001/85/EC *Special provisions for vehicles used for the carriage of passengers comprising more than eight seats in addition to the driver's seat* issued on November 20, 2001, as well as related information in ECE R36, R52, R107 and national standards of ten countries of Europe and America, and overall considered domestic human body characteristic and relevant standards.

Comparison with GB/T 12428-1990, main changes of this Standard are as follows:

- Scope of standard is Class M₂ and M₃ passenger car;
- Added and deleted normative references;
- Added terms and definitions;
- Adjusted average mass of each passenger and height of stand area [Clause 5 and article 7.2.8 in previous edition, Clause 4 and C of article 3.5 in this Standard];
- Deleted the calculation formula of loadable goods, added laden luggage mass of passenger car and calculation formula of maximum design load mass of passenger car;
- All symbols in this Standard are accordance with relevant International Standard.

This Standard will replace GB/T 12428-1990 *laden mass calculation of buses*.

This Standard is proposed by Ministry of Communications of P. R. China.

This Standard is under jurisdiction of National Technical Committee on Road Vehicles of Standardization Administration of China.

Chief draft units of this Standard: Chang'an University, Guilin Guilian Bus Industry Co., Ltd, Chengdu Bus Co., Ltd, Ningbo University of Technology.

Chief drafters of this Standard: Shen Fulin, Xie Jinming, Yang Min and Li Weiwei.

History editions replaced by this Standard are as follows:

- GB/T 12428-1990.

Laden Mass Calculating Method for Buses

1 Scope

This Standard specifies the calculating methods of the average calculated mass of each member and his hand baggage and the baggage other than the hand baggage in the bus, the surface area available for the standing passenger, the tolerant Laden mass of baggage per unit baggage compartment volume and baggage carrier area, the number of passengers, laden mass of baggage and the maximum designed laden mass.

This Standard applies to the Class M₂ and M₃ buses, the rest types of vehicles can be implemented by reference.

2 Normative References

The articles contained in the following documents have become this standard when they are quoted herein. For the dated documents so quoted, all the modifications (excluding corrections) or revisions made thereafter shall not be applicable to this Standard. For the undated documents so quoted, the latest editions shall be applicable to this Standard.

GB/T 3730.1-2001 Motor vehicles and trailers—Types—Terms and definitions

GB/T 3730.2-1996 Road vehicle-Masses-Vocabulary and codes

GB/T 15089-2001 Classification of power-driven vehicles and trailers

3 Terms and Definitions

For the purpose of this Standard, the following terms and definitions specified in GB/T 3730.1-2001 and GB/T 3730.2-1996 shall apply.

3.1

passengers and crew

General terms for the passengers, driver and member of the crew.

3.2

passengers

Other passengers besides the members of the crew.

3.3

passenger compartment

The space on the bus for the passengers' use, not including the space for the fixed appliances besides the passenger seats: such as the barriers, coin box, water dispenser, freezer, kitchen, bar, rest room, the driving area, Class A, Class I and Class II bus conductors' working area and others.

3.4

the surface area available for passenger compartment

The available area that the sitting or standing passenger occupies when the bus is under

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